

ASSOCIATES

18TH SPACE SURVEILLANCE SQUADRON

12 Laboratory Road,

(661) 277-8672 or DSN 527-8672

18th SPSS, located at Edwards since 1994, is an Air Force Space Command geographically separated unit of the 21st Operations Group, Peterson Air Force Base, Colo.

The mission of the squadron is direct support to the U.S. commander in chief and Space Command's space control mission through optical space surveillance, including detection, tracking, identification and special signature collection of near-space and deep-space objects.

To accomplish the unit's mission, the squadron controls a network of optical sensors in four worldwide locations. Three ground-based electro-optical deep-space surveillance, or GEODSS, units are located at Socorro, N.M.; Diego Garcia; and Maui, Hawaii. In addition to GEODSS sensors, the squadron operates the Maui Space Surveillance System and the transportable optical system, Moron Air Base, Spain. 18th SPSS operators control GEODSS remote telescopes from Edwards.

31 TEST AND EVALUATION SQUADRON

60 N. Wolfe Ave.,

(661) 277-2366 or DSN 527-2366

The 31st Test and Evaluation Squadron, established in 1917, is the home of Air Combat Command Operation's maintenance and engineering experts who test, assess, and evaluate effectiveness and suitability of new U.S. Air Force weapons systems designs. The Desert Pirates, as they are called, are the sole ACC organization at Edwards and are part of the 53rd Test and Evaluation Group, Nellis Air Force Base, Nev., and the 53rd Wing, Eglin Air Force Base, Fla. The 31st represents the operational combat user during early flight testing to ensure the warfighter receives the world's best operational systems.

The unit is manned with operations, maintenance and engineering experts who plan and conduct tests, evaluate effectiveness and suitability, and influence system designs with an operational perspective. Unit personnel are



The "B's", a B-52, B-1 and B-2 fly in formation over mountainous terrain.

integrated into the F-22, B-1, B-2, B-52, Global Hawk and Airborne Laser programs. Their results and conclusions support Department of Defense acquisition, deployment and employment decisions.

AIR EDUCATION AND TRAINING COMMAND, STUDIES AND ANALYSIS SQUADRON, DETACHMENT 1

118 South Wolfe Ave.,

(661) 277-3501 or DSN 527-3501

Detachment 1, AETC SAS is a component of headquarters AETC and supports all agencies in the Department of Defense and NATO in the development, assessment and analysis of training systems during the acquisition process. At Edwards, Detachment 1 assists in the development of maintenance training for brand new acquisition systems, such as the Joint Strike Fighter, and augments the mission of Detachment 5, Air Force Operational Test and Evaluation Center, through training assessment.

F-22 Raptor

AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS, DETACHMENT 111

15 S. Muroc Drive,

(661) 277-2208 or DSN 527-2208

AFOSI, Detachment 111 provides special investigative services for the protection of Air Force and Department of Defense personnel, operations and material at Edwards.

The unit strives to exploit counterintelligence activities for force protection, resolve crime impacting the community, combat threats to information systems and technologies, and defeat and deter acquisition fraud.

AIR FORCE OPERATIONAL TEST AND EVALUATION CENTER, DETACHMENT 5

192 E. Yeager Blvd.,

(661) 277-3617 or DSN 527-3617

Detachment 5, a component of the Air Force Operational Test and Evaluation Center at Kirtland Air Force Base, N.M., helps to ensure the nation's warfighters and logisticians have the right tools to accomplish the mission effectively. The Detachment focuses on operational testing, the critical follow-on process to the Air Force Flight Test Center's developmental test and evaluation emphasis.

AFOTEC personnel work closely with the Test Center's combined test forces for early involvement, resource conservation and operational realism in flight test programming.

AIR FORCE OPERATIONAL TEST AND EVALUATION CENTER, DETACHMENT 6

365 N. Flightline Road,

(661) 275-3568 or DSN 525-3568

Detachment 6, which became operational October 1, 2001, is the newest of AFOTEC's detachments and is responsible for the operational test and evaluation of the Air Force's new air-superiority fighter, the F-22 Raptor. The Detachment 6 charter is to evaluate the effectiveness and suitability of the F-22 in an operationally realistic environment to ensure our warfighters receive the best overall air



combat vehicle possible. Detachment 6 personnel at Edwards include logisticians, engineers and pilots who work with the Air Force Flight Test Center's F-22 Combined Test Force. Detachment 6 also has personnel at AFOTEC Headquarters at Kirtland Air Force Base, N.M., including the F-22 operational test program manager, logisticians, analysts and operations support staff to provide coordination between locations.



F-117

AIR FORCE PLANT 42 PRODUCTION FLIGHT TEST INSTALLATION

Palmdale, Calif.

Air Force Plant 42 is a government-owned, contractor-operated facility with proximity to both the concentration of aerospace industry in Los Angeles and the high-speed corridors and resources of the Air Force Flight Test Center at Edwards. The facility is uniquely situated to fully support the nation's newest and most advanced commercial and military aerospace systems. Air Force Plant 42 is one of five Air Force plants located throughout the United States and differs in that it hosts three major aircraft corporations: Boeing, Lockheed Martin and Northrop Grumman.

The mission of Air Force Plant 42 is to provide industrial facilities for production, modification, and depot maintenance and flight test of U.S. aerospace systems.

Air Force Plant 42 is composed of the following military units as well as the three DoD contractors mentioned above:

AERONAUTICAL SYSTEMS CENTER, DETACHMENT 1

2503 E. Ave. P, Palmdale, Calif.,
(661) 272-6770

Detachment 1, a component of ASC, Wright-Patterson Air Force Base, Ohio, provides command and control of Air Force Plant 42, airfield complex and industrial facilities used for production, modification, depot maintenance and flight test of U.S. aerospace systems. The unit provides security, airfield management, maintenance and engineering support, fire protection, crash and rescue, recovery and safety, information management, and contract and property management.

410TH FLIGHT TEST SQUADRON/F-117 COMBINED TEST FORCE

15th St. E. and Ave. P, Palmdale, Calif.
(661) 572-5190

The 410th Flight Test Squadron, part of the 412th Test Wing and Air Force Flight Test Center, provides operational F-117A support by conducting all developmental test and evaluation and depot maintenance acceptance flights prior to return to operational units.

645TH MATERIEL SQUADRON, DETACHMENT 4

1011 Lockheed Way, Palmdale, Calif.
(661) 572-1267

Detachment 4 of the 645th Materiel Squadron, a component of Aeronautical Systems Center, Wright-Patterson Air Force Base, Ohio, provides on-site management; direction and control over the acquisition, modification, maintenance, testing, training and logistics support of special purpose aircraft; and other sensitive, high-priority projects as directed by the Air Force.

WARNER ROBINS AIR LOGISTICS CENTER, DETACHMENT 2

2030 E. Ave. M, Palmdale, Calif.
(661) 277-4000

Detachment 2, a unit of Warner Robins ALC, Robins Air Force Base, Ga., is the sole Air Force unit responsible for planning, conducting and reporting on all U-2 flight test programs. The unit conducts U-2 developmental and operational mission support and post-depot maintenance acceptance flights. The unit also provides quality assurance oversight of depot and flight test maintenance activity and validates technical changes to the aircraft, equipment and technical publications.

AIR FORCE RESEARCH LABORATORY, PROPULSION DIRECTORATE, DETACHMENT 7

Public Affairs Office,
5 Pollux Drive,
(661) 275-5465 or DSN 525-5465
www.pr.afrl.af.mil

Development of rocket propulsion technologies for future Air Force space and missile systems is the responsibility of the Air Force Research Laboratory's Propulsion Directorate at Edwards.

The Air Force Research Laboratory, headquartered at Wright-Patterson Air Force Base, Ohio, encompasses all Air Force research and development with directorates and facilities throughout the United States.

The directorate here has devoted its efforts to the discovery, development and application of scientific and engineering answers to national defense rocket propulsion needs for the past 50 years.

More than 250 scientists, engineers, technicians and support staff advance this technology area. They are assisted by additional on-site contractors and base-support organizations.

The Propulsion Directorate is the development center for all Air Force rocket and missile propulsion technologies including propellants, combustion, characterization of exhaust plumes, and materials and structures unique to rocket propulsion. Nearly every U.S. rocket-propelled system used today for tactical, ballistic launch, space launch and space operations can trace its technology back to the facility here.

The directorate's unique, state-of-the-art research equipment and physical assets cover more than 65 square miles of Edwards. They include static rocket test stands capable of holding test firings up to 10 million pounds of thrust.

Known historically as the "Rocket Site," its current efforts are devoted to a national master plan for rocket propulsion technology research involving all military services, NASA and rocket industry. Called IHRPT or Integrated High Payoff Rocket Propulsion Technology, this research, coupled with advanced propulsion concept demonstrations will push the advancement of rocket propulsion technology into the next century.

AREA DEFENSE COUNSEL

20 W. Popson Ave.,
(661) 277-2809 or DSN 527-2809

The Area Defense Counsel, the equivalent of a public defender, serves to advocate for military members involved in administrative or punitive action taken by commanders. The counsel focuses on legal issues pertaining to military justice such as letters of reprimand, Articles 15, courts-martial and medical or flying evaluation boards.

ARMY AND AIR FORCE EXCHANGE SERVICE

W. 240 Fitzgerald Blvd.
(661) 258-1078

In a continuing effort to improve quality of life at Edwards Air Force Base, the Army and Air Force Exchange Service provides the community with services, products and retail facilities from a shoppette with a Pizza Hut to a car-care center upgraded with the installation of 24-hour credit card reader gas dispensers and Enterprise Car Rental.

Located in the 73,000-square-foot Base Exchange complex is military clothing sales, beauty and barber shops, a same-day optical shop, a florist, a video arcade, cellular phone store, alterations shop, a General Nutrition Center (GNC), and an Armed Forces Bank. Additionally, the exchange food court houses Anthony's Pizza, Baskin Robbins, Popeye's Chicken, Robin Hood and Taco Bell Express.

AAFES provides many other food franchises, concessions and snack bars, including Burger King, the Thai Garden restaurant and cafeterias at South Base, NASA and Mary's Place in Bldg. 1600. For further shopping convenience, AAFES features a shoppette complex with a Class Six, dry cleaners, pet store/groomer, laundromat and a troop store with a barber shop.



A rocket engine is tested at a test stand at the Air Force Research Laboratory, Propulsion Directorate.

CIVIL AIR PATROL, EDWARDS AIR FORCE BASE COMPOSITE, SQUADRON 84

Muroc Manor, Bldg. P-1, Rest Road, South Base
(661) 277-6543 or DSN 527-6543

The Civil Air Patrol is the official auxiliary of the U.S. Air Force and has three missions: fostering internal and external aerospace education; operating a cadet program including aerospace education, leadership training, physical fitness, moral leadership and an opportunity to learn to fly; and supporting emergency services through search and rescue, disaster relief and humanitarian services.

DEFENSE COMMISSARY AGENCY

312 W. Fitzgerald Ave.
(661) 277-4589 or DSN 527-4589

The Defense Commissary Agency aims to ensure military readiness and retention of quality personnel by providing a valuable part of the military compensation package. The Edwards Commissary strives to enhance quality of life by providing groceries and household supplies at at-cost resale value. The commissary is open Tuesday through Friday from 9:30 a.m. to 7 p.m., Saturday from 9 a.m. to 6 p.m. and Sunday 10 a.m. to 6 p.m. A full-service deli, bakery and meat counter are available. (www.commissaries.com)

FEDERAL AVIATION ADMINISTRATION HIGH DESERT TRACON

100 E. Sparks Road
(661) 258-6300 or DSN 527-2023

The FAA's High Desert Terminal Radar Approach Control, radio call sign Joshua Approach, provides mission-related air traffic control services to Department of Defense and DoD-sponsored aircraft within the entire R-2508 airspace complex, encompassing nearly 25,000 square miles.

The TRACON's Department of Transportation, FAA civilian personnel also provide air traffic control services to civil aircraft within and outside the special-use airspace.

MARINE AIRCRAFT GROUP 46, DETACHMENT BRAVO

Two Marine Corps Reserve helicopter squadrons and a support staff, representing the command at Marine Corps Air Station Miramar, Calif., relocated to Edwards in May 1999 following the closure of Marine Corps Air Station El Toro, Calif. There are more than 350 Marines and sailors, with about half living in the local area and the others commuting from their homes throughout California and the United States.

Marine Heavy Helicopter Squadron 769 (HMH-769) operates 11 CH-53E Super Stallions. Their mission is to transport heavy equipment, weapons and supplies during ship-to-shore movements and amphibious assaults.

Marine Medium Helicopter Squadron 764 (HMM-764) operates 13 CH-46E Sea Knights. Their mission is to transport combat troops in initial assault waves and follow-on stages of amphibious operations ashore.

Both squadrons primarily support Marines at Camp



Pendleton and 29 Palms—both located in California—while assisting Team Edwards with VIP transport, medical evacuations, photo and shuttle landing support, and other assistance during base and community emergencies.

NASA DRYDEN FLIGHT RESEARCH CENTER

Public Affairs Office, Lilly Drive
(661) 276-3449

www.dfrc.nasa.gov

The Dryden Flight Research Center, NASA's premier installation for aeronautical flight research, is NASA's "Center of Excellence" for atmospheric flight operations. Its charter is to research, develop, verify and transfer advanced aeronautics, space and related technologies.

In addition to carrying out aeronautical research, the center also supports the space shuttle program as a backup landing site.

Dryden's history dates back to late 1946, when 12 employees arrived at what is now Edwards from the National Advisory Committee for Aeronautics Langley Memorial Aeronautical Laboratory, Hampton, Virginia. Their goal was to prepare for X-1 supersonic research flights in a joint NACA-Army Air Forces-Bell Aircraft program. The NACA was NASA's predecessor.

Since the days of the X-1, the first aircraft to fly faster than the speed of sound, the center has grown in size and significance and is associated with many important milestones in aviation: supersonic and hypersonic flight, wingless lifting bodies, fly-by-wire, supercritical and forward-swept wings and space shuttles.



Main Building at NASA Dryden Flight Research Center



U.S. Army Veterinary Service provides comprehensive veterinary care to all government-owned animals..

Dryden continues to pioneer programs that support NASA's Aerospace Technology Enterprise by contributing to revolutionary leaps in technology, access to space at reduced cost and global civil aviation.

Along with research and support aircraft, Dryden assets include a high-temperature and loads-calibration laboratory, aircraft flight-instrumentation capability, a flow-visualization facility to study flow patterns, a data-analysis facility to process flight research data, and remotely piloted vehicle flight research expertise.

In addition, Dryden's Research Aircraft Integration Facility simultaneously checks aircraft flight controls, avionics, electronics and other systems. It is the only facility of its type in NASA and is designed to speed up and enhance systems integration and preflight checks on research aircraft.

Dryden has been the site of 48 shuttle landings since the first orbital flight in April 1981. After an Edwards' landing, orbiters are serviced at Dryden for ferry flights back to Kennedy Space Center in Florida atop one of NASA's two modified Boeing 747 Shuttle Carrier Aircraft.

U.S. ARMY VETERINARY SERVICE

900 Kincheloe Ave.

(661) 275-PETS or DSN 525-7387

The U.S. Army Veterinary Service provides comprehensive veterinary care to all government-owned animals, such as the 95th Security Forces Squadron's military working dogs, and to all servicemembers' privately-owned animals through the Veterinary Treatment Facility. The service ensures disease prevention and control programs on base and the compliance by all commercial and military food establishments with sanitary standards. The service also maintains a liaison with local veterinary professional organizations in order to provide assistance during civic emergencies.

CONTRACTORS

- **Ace Engineering, Inc.**, (661) 277-1750
- **AMPB Security Services**, (661) 277-3714
- **The Boeing Company**, (661) 275-3169/FAX (661) 277-0650
- **Chugach Management Services, Inc.**, (661) 258-4410/
FAX (661) 258-0511
- **ERC** (AFRL research in propulsion sciences), (661) 275-6178
- **General Electric**, (661)277-7350/FAX (661) 824-7287
- **Integrated Technology Works, Inc./Teltara, Inc.**
(joint venture-custodial services), (661) 258-4182/FAX (661) 258-6501
- **J-TECH** (JT3), (661) 277-9107
- **J. Torres Company (refuse/recycling)**, (661) 277-3867
- **Lockheed Martin Marietta** (F-22) (661) 277-5804
- **Lockheed Martin Fort Worth** (F-16), (661) 277-3673/
FAX (661) 277-2645
- **N & N Travel Services**, (661) 277-3160
- **Northrop/Grumman** (B-2), (661) 275-0004/FAX (661) 266-5360
- **Northrop/Grumman** (RAC), (661) 275-0609
- **Pratt & Whitney**, (661) 275-4193/FAX (661) 258-6523
- **Raytheon Aerospace**, (661) 277-9777 or 277-9790
- **Spiral Technology** (AFRL advanced research and engineering support),
(661) 275-5678
- **Sverdrup Technology** (AFRL research operations support services),
(661) 275-5618
- **Tybrin**, (661) 277-0096
- **United Paradyne**, (661) 277-3522
- **Veridian Engineering**, (661) 277-9537 or (661) 277-2764